Performance Data Sheet

RGA5512BXV

General Information

Model	RGA5512BXV	**Refrigerant**	R-410A
Test Condition	ARI	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3730	3680					
	Watts	636	661					
	Amps	2.50	2.60					
	Lb/h	47.8	47.5					
-10	Btu/h	4410	4270	4120				
	Watts	654	686	718				
	Amps	2.57	2.70	2.83				
	Lb/h	55.2	54.6	53.8				
-5	Btu/h	5180	4950	4710	4470			
	Watts	668	707	746	786			
	Amps	2.62	2.78	2.93	3.09			
	Lb/h	63.6	62.6	61.5	60.2			
0	Btu/h	6020	5710	5390	5060	4720		
	Watts	678	725	772	819	867		
	Amps	2.66	2.84	3.03	3.21	3.40		
	Lb/h	72.9	71.5	70.0	68.4	66.7		
5	Btu/h	6950	6550	6140	5730	5300		
	Watts	685	739	794	849	904		
	Amps	2.69	2.90	3.11	3.32	3.54		
	Lb/h	83.2	81.4	79.5	77.6	75.4		
10	Btu/h	7960	7470	6980	6480	5970	5450	4920
	Watts	688	750	812	874	937	1000	1060
	Amps	2.70	2.94	3.18	3.42	3.66	3.91	4.16
	Lb/h	94.3	92.1	89.9	87.6	85.1	82.5	79.7
15	Btu/h	9050	8470	7890	7300	6710	6100	5490
	Watts	687	756	826	897	967	1040	1110
	Amps	2.70	2.97	3.24	3.51	3.78	4.05	4.32
	Lb/h	106	104	101	98.4	95.6	92.7	89.5
20	Btu/h	10200	9550	8880	8210	7530	6840	6140
	Watts	681	759	837	915	993	1070	1150
	Amps	2.69	2.98	3.28	3.58	3.87	4.17	4.48
	Lb/h	119	116	113	110	107	104	100

25	Btu/h	11400	10700	9940	9190	8420	7650	6870
	Watts	672	758	843	929	1020	1100	1190
	Amps	2.66	2.98	3.31	3.63	3.96	4.29	4.62
	Lb/h	132	129	126	123	119	116	112
30	Btu/h	12700	11900	11100	10200	9390	8530	7670
	Watts	658	752	846	939	1030	1130	1220
	Amps	2.61	2.97	3.32	3.67	4.03	4.39	4.75
	Lb/h	147	143	140	136	132	128	124
35	Btu/h	14100	13200	12300	11400	10400	9490	8540
	Watts	640	742	843	945	1050	1150	1250
	Amps	2.55	2.94	3.32	3.70	4.09	4.47	4.86
	Lb/h	162	158	154	150	146	142	137
40	Btu/h	15500	14500	13500	12500	11500	10500	9480
	Watts	617	727	837	947	1060	1170	1280
	Amps	2.48	2.89	3.30	3.71	4.13	4.54	4.96
	Lb/h	177	173	169	165	160	156	151
45	Btu/h	17000	16000	14900	13800	12700	11600	10500
	Watts	590	708	826	944	1060	1180	1300
	Amps	2.38	2.83	3.27	3.71	4.16	4.60	5.05
	Lb/h	194	189	185	180	175	171	166
50	Btu/h	18600	17400	16300	15100	13900	12800	11600
	Watts	557	684	810	936	1060	1190	1320
	Amps	2.27	2.75	3.22	3.69	4.17	4.64	5.12
	Lb/h	211	206	201	196	191	186	181
55	Btu/h	20200	19000	17700	16500	15200	14000	12700
	Watts	520	654	789	924	1060	1190	1330
	Amps	2.15	2.65	3.15	3.66	4.16	4.66	5.17
	Lb/h	228	223	218	213	208	202	197

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.472524E+03	3.087264E+02	1.223053E+00	8.260916E+01
C2	3.180421E+02	-1.066701E+01	-3.864285E-02	2.563879E+00
C3	-3.076609E+01	4.627090E+00	1.802696E-02	-1.240136E-01
C4	1.486394E+00	-8.616644E-02	-3.057827E-04	1.635874E-02
C5	-1.747539E+00	1.578461E-01	5.794639E-04	-7.654164E-03
C6	1.457284E-02	-8.517925E-04	-4.009748E-06	2.656779E-04
C7	-3.063791E-03	-1.843665E-04	-5.479579E-07	-4.000326E-05
C8	1.622379E-03	1.609725E-04	5.454203E-07	1.931894E-05
C9	-3.106930E-05	-3.923535E-05	-1.534286E-07	8.645217E-07
C10	-1.557689E-04	8.881494E-06	4.210935E-08	-2.817187E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature